

Quarterly Progress Report

Project Title:	Study of Optimal Travel Speed Limits for Shared Traffic		
RFP Number: 2002-28	NJDOT Research Project Manager: Karl Brodtman		
Task Order Number/Study Number: NCTIP-043	Principal Investigator: Yang, Jian		
Period Starting: 01/01/2003 - 12/31/2003 (Start-End Date of Study)	Period Ending: 09/02/2003		

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Phase 1. Literature Review	10	10	100	10
Task 1. Review Current Speed Limit Criteria	10	10	100	10
Task 2. Compare NJ Speed Limit Criteria to Others	10	10	100	10
Task 3. Review Attributes for Low-speed Roads	10	30	90	9
Task 4. Assess Data	15	10	100	15
Task 5. Identify Speed Factors	15	40	100	15
Task 6. Establish Procedure for Setting Speeds	10	50	50	5
Task 7. Identify Locations for Implementation	10	0	0	0
Task 8. Final Report	10	30	50	5
Final Report				
TOTAL	100 %			79.0 %

1. Progress this quarter by task:

We divided road categories into urban and rural, and used Logit modeling features in SAS to identify the best logisitic formulas that could predict the pedestrian/bicyclist injury severities separately for the two situations. The formulas clearly indicated the significant role that vehicle speed limits played in determining injury severities. By plugging the formulas back to the real data, we were able to confirm their accuracies. We were then able to set ideal speed limits for different roadways using the formulas as guidelines.

2. Proposed activities for next quarter by task:

We will simulate the operational conditions of roadways to test the feasibilities of the newly proposed speed limits. We will also assess the community acceptance of the speed limits. We will identify roadways in New Jersey where the new speed limits should be implemented. Final reports and all technical memorandums will be completed in the next quarter.

3. List of deliverables provided in this quarter by task (product date):

4. Progress on implementation and training activities:

5. Problems/proposed solutions:

6. Budget summary:

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Total Project Budget (# Years)	1 Year	\$172,641.00
Total Project Expenditure to date		\$85,777.00
% of Total Project Budget Expended		49.69%
Task Order Number/ Study Number	1 Year	NCTIP-043
Current Task Order Budget (# of Years)		\$0.00
Actual Expenditure to Date Against Current Task Order		\$0.00
% of Current Task Order Budget Expended		0.00%